

Printed by EAST

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**UserID:** MNguyen

**Computer:** WS10228

**Date:** 02/22/2001

**Time:** 18:00

	Type	L #	Hits	Search Text	DBS	Time Stamp	Comments
1	BRS	L1	327	(fax or facsimile) and font and ((character or text) adj code\$1) and (print\$3 or record\$3)	USPAT	2001/02/22 16:50	
2	BRS	L3	0	1 and ("AND" adj gate)	USPAT	2001/02/22 16:52	
3	BRS	L5	0	1 and ("AND" adj (operation or function))	USPAT	2001/02/22 16:52	
4	BRS	L7	80	1 and gate	USPAT	2001/02/22 16:54	

L1                   QUE RECORDING OR RECORDER OR PRINTER  
L2                   QUE TIME# OR PERIOD# OR INTERVAL#  
L3                   QUE CONTROL###  
L4                   QUE L2 AND L3  
L5                   QUE L1 AND L2  
L6                   4598 S L5 AND 395/CLAS  
L7                   QUE PRINTING HEAD#  
L8                   QUE SCAN### CARRIAGE#  
L9                   QUE L7 AND L8  
L10                  0 S L6 AND L9  
L11                  QUE L7 AND CARRIAGE#  
L12                  54 S L6 AND L1

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*  
* The Help Desk is staffed for APS support 7 days/week.  
* Monday through Friday: 6:30am - 9:00pm  
* Saturday, Sunday, Holidays: 8:30am - 5:00 pm  
*  
* The Help Desk staff at this number will handle all APS  
* related questions.  
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  
* >>>>>>>>>> NEW SUNDAY HOURS !!! <<<<<<<<<<  
*  
* The APS is available:  
* 6:30am - 9:00pm Monday through Friday  
* 7:30am - 5:00pm Saturday, Sunday, Holidays  
*  
* APS is unavailable Thanksgiving Day, Christmas Day,  
* and New Year's Day.  
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FILE 'USPAT' ENTERED AT 16:14:02 ON 25 FEB 1999  
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* W E L C O M E T O T H E  
* U. S. P A T E N T T E X T F I L E  
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *  
=> que interface or connect##  
L1 QUE INTERFACE OR CONNECT##  
=> que printer or recording  
L2 QUE PRINTER OR RECORDING  
=> que l1 and l2  
L3 QUE L1 AND L2  
=> que printing and (interval# or timer)  
L4 QUE PRINTING AND (INTERVAL# OR TIMER)  
=> s l3 and l4  
218606 INTERFACE  
1549710 CONNECT##  
70331 PRINTER  
144430 RECORDING  
121300 PRINTING  
348050 INTERVAL#  
79935 TIMER  
L5 13390 L3 AND L4  
=> s l5 and 395/clas  
28457 395/CLAS  
L6 1018 L5 AND 395/CLAS  
=> que data supply
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L7 QUE DATA SUPPLY  
(DATA(W) SUPPLY)

=> s 15 and 17

496912 DATA  
571641 SUPPLY  
533 DATA SUPPLY  
(DATA(W) SUPPLY)

L8 56 L5 AND L7

=> d 18 1-56

1. 5,831,642, Nov. 3, 1998, Ink jet **recording** method and apparatus; Miyuki Matsubara, et al., 347/9, 15, 43, 44 [IMAGE AVAILABLE]
2. 5,822,656, Oct. 13, 1998, Image forming apparatus in which a plurality of image segments are integrated into complete image; Toshio Konaka, et al., 399/130; 358/450 [IMAGE AVAILABLE]
3. 5,821,969, Oct. 13, 1998, Image forming apparatus; Yutaka Koshi, et al., 347/116, 153; 358/261.2 [IMAGE AVAILABLE]
4. 5,781,310, Jul. 14, 1998, Copying system having image inputting unit and image outputting unit shared with other image processing systems; Haruka Nakamura, et al., 358/468, 407, 409 [IMAGE AVAILABLE]
5. 5,731,829, Mar. 24, 1998, Information processing and **recording** apparatus with two **recording** medium conveyance routes; Takashi Saito, et al., 347/104, 108; 400/605 [IMAGE AVAILABLE]
6. 5,671,466, Sep. 23, 1997, Electrophotographic apparatus and sheet guide mechanism; Satoshi Hokamura, et al., 399/124; 271/242; 399/394 [IMAGE AVAILABLE]
7. 5,666,213, Sep. 9, 1997, Image data processing system and method realizing fine image with simple construction/procedure; Masakazu Ohshita, et al., 358/448, 456, 462; 382/199 [IMAGE AVAILABLE]
8. 5,631,677, May 20, 1997, **Printing** apparatus and method of charging battery therein; Hideo Horigome, et al., 347/19; 320/134, DIG.19 [IMAGE AVAILABLE]
9. 5,528,376, Jun. 18, 1996, Information processing apparatus capable of **connecting** one of a plurality of types of printers; Naoshi Inoue, et al., 358/296; 347/3, 102 [IMAGE AVAILABLE]
10. 5,528,352, Jun. 18, 1996, Electrophotographic apparatus having original separation means; Kazuhiro Ichinokawa, et al., 399/365; 271/121 [IMAGE AVAILABLE]
11. 5,488,395, Jan. 30, 1996, Liquid jet **recording** apparatus; Yoshiaki Takayanagi, et al., 347/7; 73/304R [IMAGE AVAILABLE]
12. 5,485,535, Jan. 16, 1996, Data processing system comprising a plurality of data processing apparatus conducting data communications through a bus line; Shinobu Arimoto, 382/305 [IMAGE AVAILABLE]
13. 5,465,156, Nov. 7, 1995, Facsimile machine having **printer** unit and **interface**; Yoshihiro Arai, 358/296, 442 [IMAGE AVAILABLE]
14. 5,452,072, Sep. 19, 1995, Transfer unit mounted on a pivotal upper cover; Kazuhiro Ichinokawa, et al., 399/297 [IMAGE AVAILABLE]

15. 5,416,395, May 16, 1995, Carriage drive control for a **printer**; Soichi Hiramatsu, et al., 318/600, 568.18, 592, 597, 603, 696; 347/37; 388/811, 829 [IMAGE AVAILABLE]
16. 5,359,358, Oct. 25, 1994, **Recording** apparatus with ink jet **recording** head and capping device; Yoshiyuki Shimamura, et al., 347/9, 29 [IMAGE AVAILABLE]
17. 5,341,471, Aug. 23, 1994, Controller for accessing an image data memory based on a state of a hard copy **printer**; Hideki Yamazaki, et al., 345/518; 395/115 [IMAGE AVAILABLE]
18. 5,321,479, Jun. 14, 1994, Electrophotographic apparatus; Tatsuya Yoshida, et al., 399/70 [IMAGE AVAILABLE]
19. 5,296,946, Mar. 22, 1994, Image processing apparatus with color conversion means; Toshihiro Kadowaki, et al., 358/531, 538 [IMAGE AVAILABLE]
20. 5,270,775, Dec. 14, 1993, **Recording** apparatus managing system; Nobuyoshi Suzuki, 399/8, 10; 705/28 [IMAGE AVAILABLE]
21. 5,228,100, Jul. 13, 1993, Method and system for producing from document image a form display with blank fields and a program to input data to the blank fields; Haruo Takeda, et al., 382/175, 229, 289, 296, 311 [IMAGE AVAILABLE]
22. 5,208,902, May 4, 1993, **Recording** apparatus; Toshihiko Kumon, 395/116; 355/102; 395/115; 399/16; 400/708.1 [IMAGE AVAILABLE]
23. 5,208,640, May 4, 1993, Image **recording** apparatus; Kiyoshi Horie, et al., 399/110; 271/3.01, 9.13, 298, 301 [IMAGE AVAILABLE]
24. 5,182,650, Jan. 26, 1993, Information processing apparatus capable of **connecting printer**; Naoshi Inoue, et al., 358/296; 346/3; 347/3, 102; 358/304 [IMAGE AVAILABLE]
25. 5,131,090, Jul. 14, 1992, Word processor with simplified character train designation for modifying fonts; Takayuki Fukushima, 707/542; 364/225, 225.4, 225.6, 225.8, 225.9, 226.1, 231, 231.1, 231.2, 234, 234.2, 235, 236, 237.6, 237.9, 252.6, 280.7, 286.1, DIG.1 [IMAGE AVAILABLE]
26. 5,099,259, Mar. 24, 1992, Halftone image **printing** device; Shuzo Hirahara, et al., 347/183; 358/298 [IMAGE AVAILABLE]
27. 5,084,717, Jan. 28, 1992, Image **recording** system; Kiyoshi Emori, et al., 347/119, 158, 900 [IMAGE AVAILABLE]
28. 5,079,639, Jan. 7, 1992, Hand-held, manually sweepable image data processing apparatus; Nobuyuki Mochinaga, 358/473; 347/247; 358/497; 382/313 [IMAGE AVAILABLE]
29. 5,075,786, Dec. 24, 1991, **Printer** apparatus with sheet supply selecting means; Yoshikazu Ikenoue, et al., 358/449; 399/370 [IMAGE AVAILABLE]
30. 5,067,097, Nov. 19, 1991, Image memory controller; Hideki Yamazaki, et al., 395/115; 345/516, 521 [IMAGE AVAILABLE]
31. 5,036,476, Jul. 30, 1991, **Printer** control system; Ikuhori Yamaguchi, et al., 395/117; 347/129, 900 [IMAGE AVAILABLE]
32. 5,022,088, Jun. 4, 1991, Image processing apparatus with provision for memory operation; Katsutoshi Hisada, et al., 382/235; 358/426, 443;

33. 5,018,079, May 21, 1991, Image forming apparatus; Hiroshi Shukunami, et al., 395/106; 364/920.7, 927.2, 927.5, 927.92, 927.95, 927.99, 928, 929.4, 929.61, 930, 930.42, 931.4, 939, 939.5, 940.62, 941, 941.2, 948.2, 948.3, 964, 965, 965.5, DIG.2 [IMAGE AVAILABLE]

34. 5,008,949, Apr. 16, 1991, Image processing system; Shinobu Arimoto, 382/233, 307 [IMAGE AVAILABLE]

35. 4,966,352, Oct. 30, 1990, System for processing a web; Pierre Nuttin, 270/1.01; 101/211, 226, 483, 490; 270/12, 21.1, 52.01, 58.01 [IMAGE AVAILABLE]

36. 4,926,251, May 15, 1990, Color image processing apparatus with image corrector; Hidekazu Sekizawa, et al., 358/535, 536 [IMAGE AVAILABLE]

37. 4,897,668, Jan. 30, 1990, Apparatus for transferring ink from ink ribbon to a **recording** medium by applying heat to the medium, thereby **recording** data on the medium; Hitoshi Nagato, et al., 347/199 [IMAGE AVAILABLE]

38. 4,894,712, Jan. 16, 1990, Density gradation control type thermal **printer**; Tadashi Katsukawa, 347/183; 358/298 [IMAGE AVAILABLE]

39. 4,890,121, Dec. 26, 1989, Halftone image **printing** device; Shuzo Hirahara, et al., 347/184; 358/296, 298 [IMAGE AVAILABLE]

40. 4,884,080, Nov. 28, 1989, Color image **printing** apparatus; Shuzo Hirahara, et al., 346/46; 347/172; 358/298, 456, 476, 501; 430/44, 293 [IMAGE AVAILABLE]

41. 4,810,117, Mar. 7, 1989, **Printer** with a ribbon lift mechanism having selective time **intervals** either in typewriter mode or in **printer** mode; Yuji Hattori, 400/212, 208, 697.1, 704 [IMAGE AVAILABLE]

42. 4,805,501, Feb. 21, 1989, System for processing a web; Pierre Nuttin, 83/300, 345, 349, 560, 571, 698.41 [IMAGE AVAILABLE]

43. 4,742,369, May 3, 1988, Electronic still camera; Hiroshi Ishii, et al., 396/213; 348/232, 333, 343, 363; 358/906 [IMAGE AVAILABLE]

44. 4,736,255, Apr. 5, 1988, **Recording** apparatus; Kunihiko Miura, et al., 358/300; 347/140; 902/21 [IMAGE AVAILABLE]

45. 4,729,038, Mar. 1, 1988, **Recording** apparatus capable of forming a shadow print impression to characters; Kunihiko Miura, et al., 358/300; 347/247; 358/298, 443; 400/120.07 [IMAGE AVAILABLE]

46. 4,707,715, Nov. 17, 1987, **Printing** apparatus; Kunihiko Miura, 347/129, 139; 358/296; 399/151; 902/18 [IMAGE AVAILABLE]

47. 4,649,403, Mar. 10, 1987, **Recording** apparatus; Kunihiko Miura, 347/139; 346/145 [IMAGE AVAILABLE]

48. 4,647,950, Mar. 3, 1987, **Recording** apparatus; Takefumi Nosaki, et al., 347/246, 253; 355/69 [IMAGE AVAILABLE]

49. 4,629,173, Dec. 16, 1986, Sheet reverse apparatus; Kiyoshi Hashimoto, et al., 271/65, 186, 291; 355/24; 399/361 [IMAGE AVAILABLE]

50. 4,368,988, Jan. 18, 1983, Electronic timepiece having **recording** function; Iwao Tahara, et al., 368/63; 360/32; 365/45; 368/251; 704/268; 968/968, 969, DIG.1 [IMAGE AVAILABLE]

51. 4,339,805, Jul. 13, 1982, Information **recording** system; Kazuhiko Iida, 711/101; 347/122; 364/920, 926.1, 926.5, 926.7, 926.9, 927.2, 927.4, 927.92, 927.98, 930, 930.3, 930.4, 939, 939.2, 939.5, 940, 940.1, 940.4, 942, 942.06, 942.7, 942.8, 943, 947, 947.2, 947.6, 950, 950.3, 964, DIG.2; 711/109, 111 [IMAGE AVAILABLE]

52. 4,322,717, Mar. 30, 1982, **Recording** character configuration changing system; Kazuhiko Iida, 345/128; 347/131, 132; 358/300; 382/277, 298 [IMAGE AVAILABLE]

53. 3,923,139, Dec. 2, 1975, Device for acquisition, storage and echelon of characters in a **printer** of the series type; Paul Mesnil, et al., 400/61, 73 [IMAGE AVAILABLE]

54. 3,872,433, Mar. 18, 1975, OPTICAL CHARACTER RECOGNITION SYSTEM; Thomas G. Holmes, et al., 382/175, 295 [IMAGE AVAILABLE]

55. 3,812,475, May 21, 1974, DATA SYNCHRONIZER; Carl L. Christiansen, et al., 395/899; 364/238.3, 241.2, 241.3, 271.6, 271.7, DIG.1; 395/840 [IMAGE AVAILABLE]

56. 3,771,135, Nov. 6, 1973, REMOTE TERMINAL SYSTEM; Robert E. Huettner, et al., 395/853; 235/419; 364/228.4, 231.4, 231.5, 232.9, 234, 234.2, 237, 237.2, 237.4, 238.2, 238.3, 238.5, 239, 239.1, 239.2, 239.3, 240.1, 241.1, 259, 259.3, 259.4, 259.6, 260.4, 260.8, 264, 264.2, 264.5, 264.6,